Message

From: Detlef Knappe [knappe@ncsu.edu]
Sent: 6/15/2017 6:09:50 PM
To: Libelo, Laurence [Libelo.Laurence@epa.gov]; Strynar, Mark [Strynar.Mark@epa.gov]; Mei Sun [msun8@uncc.edu]
Subject: Re: [request] Would you please reach out to ORD this morning

Yes, Wellington had the GenX standard. They introduced it early in 2013. See:

http://www.well-labs.com/docs/hfpoda_m3hfpoda_20feb2013_wellington_reporter.pdf

The grab samples were taken on August 18, 2014.

Detlef

On 6/15/17 12:40 PM, Libelo, Laurence wrote:

> GREAT! Thanks.
>
> A couple of quick look questions –
>
> Did Wellington have a GENX standard?
>
> When were the grab samples?
>
> **From:** Strynar, Mark
> **Sent:** Thursday, June 15, 2017 12:02 PM
> **To:** Mei Sun <msun8@uncc.edu>
> **Cc:** Libelo, Laurence <Libelo.Laurence@epa.gov>; Detlef Knappe <knappe@ncsu.edu>
> **Subject:** RE: [request] Would you please reach out to ORD this morning
>
> Thanks Mei,
>
> Laurence do you need more?
>
> Mark
>
> **From:** Mei Sun [mailto:msun8@uncc.edu]
> **Sent:** Thursday, June 15, 2017 11:56 AM
> **To:** Strynar, Mark <Strynar.Mark@epa.gov>
> **Cc:** Libelo, Laurence <Libelo.Laurence@epa.gov>; Detlef Knappe <knappe@ncsu.edu>
> **Subject:** Re: [request] Would you please reach out to ORD this morning
>
> This is what I can recall:
>
> · Specificity of the analytical standard
> PFAC-MXA from Wellington Laboratory. 5 ug/mL stock solution in Methanol. Diluted into 10-750 ng/L in water.

· Sensitivity of the analytical method

I don't think we have done a sensitivity test by strict definition. LOQ is 25 ng/L for PFDA and PFOS, 10 ng/L for the rest eight legacy compounds and GenX.

· Number of detects above and below the LOD/LOQ

	GenX	PFBA	PFPeA	PFHxA	PFHpA	PFOA	PFNA	PFDA	PFBS	PFHxS	PFOS
Community A (n=127)	0	117	127	111	100	123	43	2	23	66	79
Community B (n=73)	1	45	65	34	32	28	0	0	1	6	5
Community C (n=34)	34	19	31	12	11	9	0	0	0	5	5

For the water treatment data we only have one sample at each point, so whatever shows in Figure 2 is a detect.

· Whether values in finished water represent direct measurements or calculated values (e.g., extrapolated from measurements at intake)

Direct measurements.

· Sample timing and replication

Daily compost samples:
Community A: 6/22/2013-11/19/2013.
Community B: 6/15/2013-12/2/2013
Community C: 6/14/2013-10/13/13
Grab samples (no replicates):
Water treatment plant: 8/18/2014

· Uncertainties

I don't think we have done an uncertainty test by strict definition, but we accept 20% analytical error for QC injections.

· Anything else that you think would be helpful for study interpretation

Mei Sun

Assistant Professor
Department of Civil and Environmental Engineering
University of North Carolina at Charlotte
Energy Production and Infrastructure Center 3163
9201 University City Blvd | Charlotte, NC 28223
Phone: 704-687-1723 | Fax: 704-687-0957
Website: https://coefs.uncc.edu/msun8/

On Thu, Jun 15, 2017 at 11:27 AM, Strynar, Mark <Strynar.Mark@epa.gov> wrote:

> My guess would be for any and all samples we collected and measured on the LC-MS/MS system.

Mark

From: Mei Sun [mailto:msun8@uncc.edu]
Sent: Thursday, June 15, 2017 11:25 AM
To: Strynar, Mark <Strynar.Mark@epa.gov>
Cc: Libelo, Laurence <Libelo.Laurence@epa.gov>; Detlef Knappe <knappe@ncsu.edu>
Subject: Re: [request] Would you please reach out to ORD this morning

Hi Mark

Do you know if the questions are for the raw water in all three communities, or in the water plant in Wilmington?

Mei Sun

Assistant Professor
Department of Civil and Environmental Engineering
University of North Carolina at Charlotte
Energy Production and Infrastructure Center 3163
9201 University City Blvd | Charlotte, NC 28223
Phone: 704-687-1723 | Fax: 704-687-0957

Website: https://coefs.uncc.edu/msun8/

On Thu, Jun 15, 2017 at 11:20 AM, Strynar, Mark <Strynar.Mark@epa.gov> wrote:

> I am trying to find out how best to do this. Mei Sun was a researcher working with Detlef Knappe (NCSU) back in 2013-2014 when we did this work. She is now a prof at UNC Charlotte. I may take me some time to dig up this info.

Detlef or Mei can we answer these questions?

Mark

From: Libelo, Laurence
Sent: Thursday, June 15, 2017 10:04 AM
To: Strynar, Mark <Strynar.Mark@epa.gov>
Subject: FW: [request] Would you please reach out to ORD this morning
Importance: High

HI Mark,

Can you help with this?

From: Aubee, Catherine
Sent: Thursday, June 15, 2017 9:49 AM
To: Libelo, Laurence <Libelo.Laurence@epa.gov>; Tobias, David <Tobias.David@epa.gov>
Cc: Eisenreich, Karen <Eisenreich.Karen@epa.gov>
Subject: [request] Would you please reach out to ORD this morning
Importance: High

(if you have not already) and request anything they can provide additional info on methods and underlying data for the monitoring paper?

If possible, **by 2:30PM today**, please prepare some bullets on the following:

- Specificity of the analytical standard

- Sensitivity of the analytical method
- Number of detects above and below the LOD/LOQ
- Whether values in finished water represent direct measurements or calculated values (e.g., extrapolated from measurements at intake)
- Sample timing and replication
- Uncertainties
- Anything else that you think would be helpful for study interpretation

You may be able to determine much of this from the paper and any published supplemental materials. We should still pursue getting the actual data from ORD so we have a full understanding of the study.

I know you all have many competing priorities – so thanks for your continued help on this.

Best,

Catherine

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Catherine Aubee

Acting Branch Chief - OPPT/RAD/AB1

Email: aubee.catherine@epa.gov

Phone: (202) 564-0631

Office: WJC East 6221A

By Mail:

U.S. Environmental Protection Agency

1200 Pennsylvania Ave NW

Mail Code: 7403M

Washington, DC 20460

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Detlef Knappe
Professor
319-E Mann Hall
Department of Civil, Construction, and Environmental Engineering
North Carolina State University
Campus Box 7908
Raleigh, NC 27695-7908

Phone: 919-515-8791
Fax: 919-515-7908
E-mail: knappe@ncsu.edu
Web page: http://knappelab.wordpress.ncsu.edu/